

Amendments to the Claims:

This listing of claims replaces any and all prior claim lists.

Listing of Claims:

1. (Currently Amended) A method for manufacturing a compound semiconductor substrate, comprising the steps of:

(a) epitaxially growing a compound semiconductor functional layer (2) on a substrate (1),

(b) bonding a support substrate (3) to the compound semiconductor functional layer (2),

(c) polishing the substrate (1) and a part of the compound semiconductor functional layer (2) on the side which is in contact with the substrate (1), to remove them,

(d) bonding a thermally conductive substrate (4) having a thermal conductivity higher than that of the substrate (1) to the exposed surface of the compound semiconductor functional layer (2) which is provided in the step (c) to obtain a multilayer substrate, and

(e) separating the support substrate (3) from the multilayer substrate wherein the thermally conductive substrate (4) includes at least one selected from the group consisting of a polycrystalline Si substrate obtained by CVD or sintering process; a substrate formed with a polycrystalline or amorphous diamond thin film having a thickness of about not more than 300 μm and about not less than 50 μm on a single crystal Si substrate, polycrystalline Si substrate or ceramics substrate; and a polycrystalline or amorphous SiC, AlN, and BN obtained by CVD or sintering process.

2. (Previously Presented) The method according to claim 1, wherein the compound semiconductor functional layer (2) includes at least two layers.

3. (Previously Presented) The method according to claim 1, wherein the compound semiconductor functional layer (2) includes at least one selected from the group consisting of In, Ga, and Al and at least one selected from the group consisting of N, P, As, and Sb.

4. (Cancelled).

5. (Previously Presented) A method for manufacturing a compound semiconductor substrate, comprising the steps of:

(f) epitaxially growing a compound semiconductor functional layer (22) on a substrate (21),

(g) bonding a thermally conductive substrate (23) having a thermal conductivity higher than that of the substrate (21) to the surface of the compound semiconductor functional layer (22) and

(h) polishing the substrate (21) and a part of the compound semiconductor functional layer (22) on the side which is in contact with the substrate (21) to remove them.

6. (Previously Presented) The method according to claim 5, wherein the compound semiconductor functional layer (22) includes at least two layers.

7. (Previously Presented) The method according to claim 5, wherein the compound semiconductor functional layer (22) includes at least one selected from the group consisting of In, Ga, and Al and at least one selected from the group consisting of N, P, As, and Sb.

8. (Cancelled).

9. (Previously Presented) A method for manufacturing an electronic device, comprising the steps in the method according to claim 1 and a step of forming an electrode on the resultant compound semiconductor substrate.